

Better product absorption resulting from better cleansing with Clarisonic®

R Akridge, PhD; W Harris, PhD; E Henes; K Ortblad, MHA; G Peterson, PhD
Pacific Bioscience Laboratories, Inc., Bellevue, WA



Background

- ◆ Skin care professionals have reported improved absorption of skin care products applied following cleansing with the Clarisonic.

Objective

- ◆ A study of 20 participants was undertaken to determine whether the Clarisonic can improve the absorption of skin care products by more effectively eliminating the barriers to absorption (excess sebum, dead skin cells, dirt, makeup).

Methods

- ◆ An aesthetician cleansed one-half of each subject's forehead with the Clarisonic and the other half of the forehead manually.
- ◆ An equal amount of a 16% solution of Vitamin C (ascorbic acid) was applied to each side of the forehead.
- ◆ After 20 minutes, skin sampling discs (D-Squame, CuDerm; Dallas, TX) were used to sequentially collect cells from the skin's outer epidermis (Figure 1).
- ◆ Ten discs were used on each side. The first two samples from each site represent product that was not absorbed. The remaining eight sets of samples for all 20 subjects were further analyzed for the amount and depth of absorption through spectrometric chemical analysis.

Results

- ◆ On average, 30% greater absorption of ascorbic acid was measured in the outer epidermis following cleansing with the Clarisonic compared to manual cleansing (Figure 2).
- ◆ 61% more absorption of Vitamin C was measured following Clarisonic cleansing when the 4 deepest epidermal samples were evaluated (Tape Lifts 7-10).

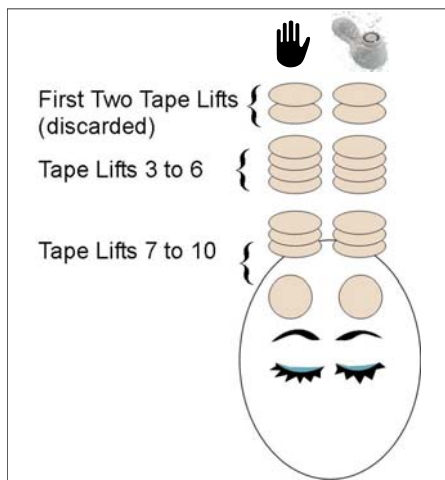


Figure 1. Cleansing method randomized to side, equal amounts of Vitamin C applied, tape strips used to collect cells from outer epidermis, then amount of Vitamin C on each tape quantified.

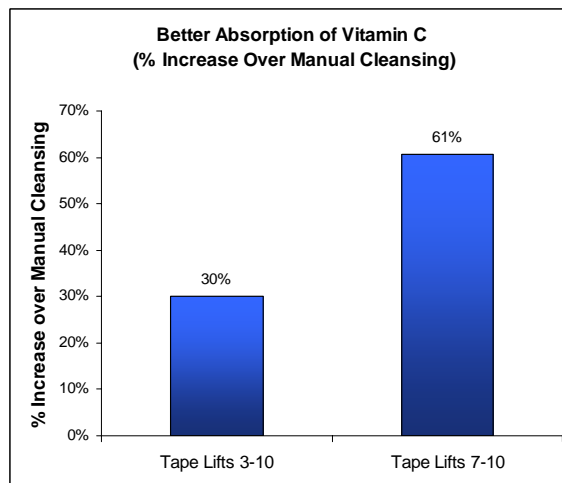


Figure 2. Percent increase in Vitamin C absorption following Clarisonic cleansing compared to that measured following manual cleansing (average increase of 20 subjects). Percent absorption of Vitamin C increased when lower epidermal samples were analyzed (Tape Lifts 7-10).

Discussion

- ◆ The Clarisonic skin care system has previously been shown to gently yet effectively cleanse while maintaining skin hydration.
- ◆ The results of this study indicate that the Clarisonic can enhance product absorption into the epidermis by effectively eliminating the extrinsic barriers to skin's natural absorption.